

- (a) exposing cells capable of producing antibodies to said at least one epitope of said heparanase protein and thereby generating antibody producing cells;
- (b) fusing said antibody producing cells with myeloma cells and thereby generating a plurality of hybridoma cells each producing monoclonal antibodies; and
- (c) screening said plurality of monoclonal antibodies to identify a monoclonal antibody which specifically binds heparanase.

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4. (Amended) The isolated antibody of claim 1, wherein the antibody is selected from the group consisting of a polyclonal antibody and a monoclonal antibody.

5. (Amended) The isolated antibody of claim 4, wherein said polyclonal antibody is selected from the group consisting of a crude polyclonal antibody and an affinity purified polyclonal antibody.

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6. (Amended) An isolated antibody elicited by at least one epitope of a mammalian heparanase protein, said heparanase protein being at least 95 % similar to SEQ ID NO:2.

7. (Amended) The isolated antibody of claim 6, wherein said heparanase protein is recombinant.

8. (Amended) The isolated antibody of claim 6, wherein elicitation of the antibody is through *in vivo* or *in vitro* techniques, said antibody having been prepared by a process comprising the steps of:

- (a) exposing cells capable of producing antibodies to said at least one epitope of said heparanase protein and thereby generating antibody producing cells;
- (b) fusing said antibody producing cells with myeloma cells and thereby generating a plurality of hybridoma cells each producing monoclonal antibodies; and
- (c) screening said plurality of monoclonal antibodies to identify a monoclonal antibody which specifically binds heparanase.

9. (Amended) The isolated antibody of claim 6, wherein the antibody is selected from the group consisting of a polyclonal antibody and a monoclonal antibody.

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